**PRACTICAL 8**

**Aim: Develop ASP.NET Core MVC application to download information from Web URL. Create asynchronous method and use it to implement the functionality.**

**Code:**

**HomeController.cs :** (Controllers / HomeController.cs)

using Microsoft.AspNetCore.Mvc;

using PRACTICAL8.Services;

using System.Threading.Tasks;

namespace PRACTICAL8.Controllers {

public class HomeController : Controller {

private readonly WebDownloadService \_webDownloadService;

public HomeController(WebDownloadService webDownloadService) {

\_webDownloadService = webDownloadService;

}

public async Task<IActionResult> Index() {

string url = "https://jsonplaceholder.typicode.com/posts/1";

string content = await \_webDownloadService.DownloadContentAsync(url);

ViewBag.Content = content;

return View();

}

}

}

**WebDownloadService.cs :** (Services / WebDownloadService.cs)

namespace PRACTICAL8.Services {

public class WebDownloadService {

private readonly HttpClient \_httpClient;

public WebDownloadService(HttpClient httpClient) {

\_httpClient = httpClient;

}

public async Task<string> DownloadContentAsync(string url) {

HttpResponseMessage response = await \_httpClient.GetAsync(url);

response.EnsureSuccessStatusCode();

string content = await response.Content.ReadAsStringAsync();

return content;

}

}

}

**Index.cshtml :** (Views / Home / Index.cshtml)

@{

ViewData["Title"] = "Downloaded Content";

}

<h2>@ViewData["Title"]</h2>

<div>

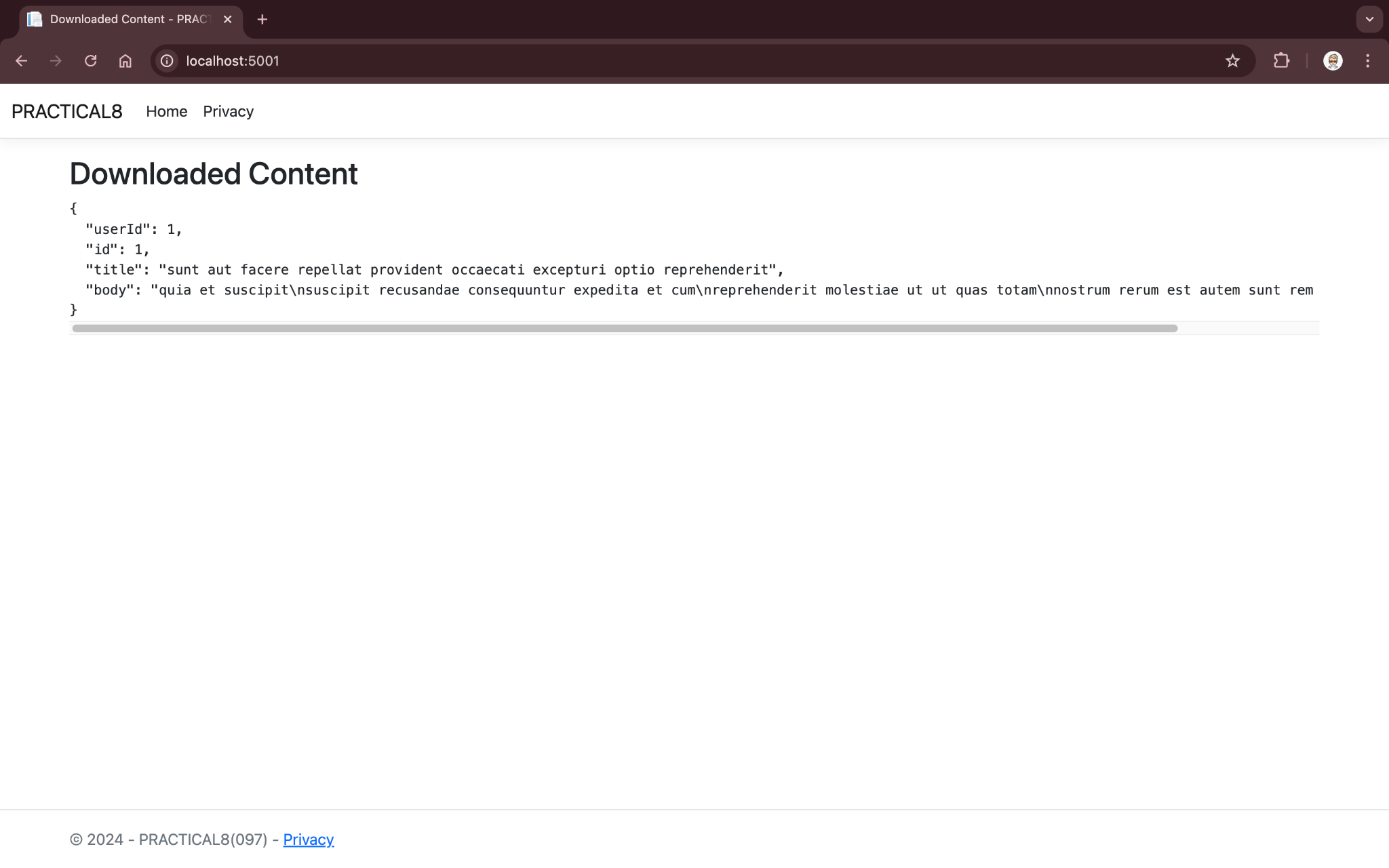
<pre>@ViewBag.Content</pre>

</div>

**Add This In Program.cs :**

builder.Services.AddHttpClient<WebDownloadService>();

**Output:**

****